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APPLICATION NO.	FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/053,492		11/02/2001	Gregg E. Favalora	10857-011001	3409
26161	7590	12/21/2004		EXAMINER	
FISH & RICHARDSON PC				REKSTAD, ERICK J	
225 FRANK BOSTON, 1		0		ART UNIT PAPER NUMBER	
2001011, 1	0211	. •		2613	
		•		DATE MAILED: 12/21/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	4
	10/053,492	FAVALORA ET AL.	<i>V</i>
Office Action Summary	Examiner	Art Unit	
	Erick Rekstad	2613	
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	ith the correspondence address	•
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days If NO period for reply is specified above, the maximum statutory Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ION. FR 1.136(a). In no event, however, may a roon. , a reply within the statutory minimum of thir period will apply and will expire SIX (6) MON statute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communical BANDONED (35 U.S.C. § 133).	tion.
Status			
1) Responsive to communication(s) filed on	<u>02 November 2001</u> .		
2a) ☐ This action is FINAL. 2b) 区	This action is non-final.		
3) Since this application is in condition for a	·		is
closed in accordance with the practice ur	nder <i>Ex parte Quayl</i> e, 1935 C.D). 11, 453 O.G. 213.	
Disposition of Claims	•		
4) Claim(s) 1-26 is/are pending in the applic	cation.		
4a) Of the above claim(s) is/are wi	thdrawn from consideration.	2	
5)⊠ Claim(s) <u>14-26</u> is/are allowed.			
6)⊠ Claim(s) <u>1-7 and 13</u> is/are rejected.			
7) Claim(s) <u>8-12</u> is/are objected to.			
8) Claim(s) are subject to restriction	and/or election requirement.		
Application Papers		•	
9) The specification is objected to by the Exa	aminer.		
10) The drawing(s) filed on is/are: a)] accepted or b) ☐ objected to	by the Examiner.	
Applicant may not request that any objection	to the drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the c	•	• •	
11)☐ The oath or declaration is objected to by t	the Examiner. Note the attached	d Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fo a) All b) Some * c) None of:	oreign priority under 35 U.S.C. {	§ 119(a)-(d) or (f).	
1.☐ Certified copies of the priority docu	ments have been received	T.	
2. Certified copies of the priority docu		opplication No.	
3.☐ Copies of the certified copies of the			
application from the International E	Bureau (PCT Rule 17.2(a)).	·	
* See the attached detailed Office action for	a list of the certified copies not	received.	
	,		
Attachment(s)		(070.442)	
1) ⊠ Notice of References Cited (PTO-892) 2) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-94		Summary (PTO-413) s)/Mail Date	
3) 🔯 Information Disclosure Statement(s) (PTO-1449 or PTO/	SB/08) 5) 🔲 Notice of I	nformal Patent Application (PTO-152)	
Paper No(s)/Mail Date	6)	······································	·

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DETAILED ACTION

This is a first action for application no. 10/053,492 filed on November 2, 2001 in which claims 1-26 are present for examination.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent 5,801,761 to Tibor.

[claim 1]

As shown in Figures 7 and 8, Tibor teaches the a method for forming a three dimensional image by providing components of the image in a series of frames to an image space, the method comprising:

Scanning an image of a light shaping element (30) over an image space (40) wherein each of the plurality of zones (42) of the light shaping element is projected to each of a plurality of zones of the image space; and

Selectively illuminating portions (20) of the light shaping element zones during each of a plurality of frames during the scan, wherein each zone of the light-shaping element scatters the illumination and at least a portion of the scattered illumination provides a component of the three-dimensional image in the image space (Col 7 Line 40-Col 5 Line 8, Col 9 Lines 5-17, Figs 1, 7, 8).

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[claims 2-7]

As shown in Figure 10A, Tibor further teaches the scanning in the standard TV format, which scans vertically and horizontally (Col 4 Line 66-Col 5 Line 1-7, Col 9 Lines 29-41, Fig. 10A). As shown in the Figure 10A, the scanning is performed using the scanning optics 32 and 33 as required by claim 3. [claim 13]

As shown in Figure 6, Tibor further teaches the scattering in the vertical dimension at the image space (Col 8 Line 64-Col 9 Line 4, Fig. 6).

Allowable Subject Matter

Claims 8-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 14-26 are allowed.

The following is an examiner's statement of reasons for allowance:

The present claims include novel and unobvious features in that the examiner was unable to find in several prior art searches. For example, the three dimensional display system containing both a spatial light modulator (210) and a image shaping device (220), wherein the modulator is not the image shaping device (Page 6 Lines 21-30). US Patent 5,801,761 to Tibor teaches a three dimensional display system (Col 9 Lines 5-17, Figs. 7 and 8). Tibor **does not teach** the use of two image shaping devices wherein the image shaping devices are the spatial light modulator and a diffuse screen. These features taken with the others in the claims define over the prior art.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US Patent 6,109,750 to Mayer et al.

US Patent 5,971,547 to Reilley.

US Patent 6,433,930 to Son.

US Patent 6,437,919 to Brown et al.

US Patent 6,154,259 to Hargis et al.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Erick Rekstad whose telephone number is 703-305-5543. The examiner can normally be reached on 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Kelley can be reached on 703-305-4856. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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